PATENT COOPERATION TREATY

From the INTERNA	TIONAL SEARC	HING AUTH	ORITY				
To: GEOFFREY L. MELNICK G.E. EHRLICH (1995) LTD. 11 MENACHEM BEGIN STREET				PCT			
RAMAT	GAN, ISRAEL	52 521		WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY			
					(PCT Rule 43bis.1)		
				Date of mailing (day/month/year) 2 4 MAY 2007			
	Applicant's or agent's file reference				FOR FURTHER ACTION		
29688	1111 - 21				See paragraph 2 below		
1	nal application No	D.	International filing date		Priority date (day/month/year)		
	PCT/IL05/00575 International Patent Classification (IPC) of		01 June 2005 (01.06.200	(5)	01 June 2004 (01.06.2004)		
			r both national classificati	ion and IPC			
IPC: USPC:	G06K 9/00(2006 Please See Contir	o.01) nuation Sheet					
Applicant							
V-TARGI	ET TECHNOLOG	GIES LTD.					
1. This c	opinion contains i	ndications rela	ting to the following items	s:			
\boxtimes	Box No. I	Basis of the	opinion				
	Box No. II	Priority					
	Box No. III	Non-establis	hment of opinion with reg	ard to novelty inv	rentive step and industrial applicability		
\boxtimes	Box No. IV		of invention		ontro sep and industrial applicability		
$\overline{\boxtimes}$	Box No. V			1(a)(i) wish			
		Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
닐	Box No. VI	Certain docu	ments cited				
	Box No. VII	Certain defec	ts in the international app	lication			
	Box No. VIII	Certain obser	vations on the internation	al application			
2. FURT	THER ACTION	V					
Author	rity other than thi	s one to be the	AUUUUTIIV TTIPEATI AYO	ept that this does PEA has notified the	be considered to be a written opinion of the s not apply where the applicant chooses an he International Bureau under Rule 66.1bls(b) dered.		
11 10/11	a withten reply to:	CUITOI, WIFELD S	considered to be a writte appropriate, with amendm piration of 22 months from	ANTE hetore the ex	PEA, the applicant is invited to submit to the spiration of 3 months from the date of mailing		
For fur	ther options, see I	Form PCT/ISA	/220.	priority adio,	capitos tater.		
3. For fur	ther details, see ne	otes to Form P	CT/ISA/220.				
	mailing address of		Date of completion	on of this opinion	Authorized officer		
	ail Stop PCT, Attn: ommissioner for Pat		15 April 2007 (15	•	Anand Bhatnagar		
P.0	O. Box 1450		13 April 2007 (13	7.04.2007)			
	lexandria, Virginia 2 o. (571) 273-3201				Telephone No. 571-272-7416		
	A/237 (cover shee)				

International application No.

PCT/IL05/00575

Box No. I Basis of this opinion								
1. With regard to the language, this opinion has been established on the basis of:								
the international application in the language in which it was filed								
a translation of the international application into, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).								
 With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of: 								
a. type of material								
a sequence listing								
table(s) related to the sequence listing								
b. format of material								
on paper								
in electronic form								
c. time of filing/furnishing								
contained in the international application as filed.								
filed together with the international application in electronic form.								
furnished subsequently to this Authority for the purposes of search.								
i wy to the reality to the purposes of search.								
In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.								
4. Additional comments:								
rm PCT/ISA/237(Box No. I) (April 2005)								
(W.L. V.LOZOVA J.LIDIX NO. 1) (ANTIL 701) 1								

International application No.

PCT/IL05/00575

In response to the invitation (Form PCT/ISA/206) to pay additional fees the applicant has, within the applicable time lim paid additional fees paid additional fees under protest and, where applicable, the protest fee paid additional fees under protest but the applicable protest fee was not paid not paid additional fees This Authority found that the requirement of unity of invention is not complied with and chose not to invite the applicant pay additional fees. This Authority considers that the requirement of unity of invention in accordance with Rule 13.1, 13.2 and 13.3 is complied with
paid additional fees paid additional fees under protest and, where applicable, the protest fee paid additional fees under protest but the applicable protest fee was not paid not paid additional fees This Authority found that the requirement of unity of invention is not complied with and chose not to invite the applicant pay additional fees. This Authority considers that the requirement of unity of invention in accordance with Rule 13.1, 13.2 and 13.3 is complied with
not complied with for the following reasons: See the lack of unity section of the International Search Report(Form PCT/ISA/210)

International application No. PCT/IL05/00575

. Statement	lanations supporting such statement	
Novelty (N)		
(N)	Claims 1-7. 31. 45. 50. 57. 62, 111. 116	Y
	Claims NONE	N
Inventive step (IS)	Claims 40	3.1
	Claims 33-39 and 41	Y N
Industrial and the Little Cons		
Industrial applicability (IA)	Claims 1-7. 31. 33-41. 45, 50, 57, 62, 111, and 116	Y
	Claims NONE	N
Citations and explanations:		
lease See Continuation Sheet		
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In case the space in any of the preceding boxes is not sufficient.

Continuation of USPC:

382/128;128/922;250/580,582,583,584,586,590,591,339.06,339.06,341.1.341.2,345,370.09,370.08,393,392;600/11,436,459,462;378/1.2,

V. 2. Citations and Explanations:

Claims 1-7 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest: The feature of, regarding claim 1, 6, and 7 "determining a probability that a photon emitted at a voxel, centered at an x;y;z position, in a volume, relative to said radioactive-emission-measuring probe, will be detected by said detecting unit, at a given view, " that in combination with the other respective claim limitations.

Claims 31, 45, 50, 57, 62, 111, and 116 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest: The feature of, regarding claim 31 and similarly claims 45,50,57,62,111, and 116, "obtaining a second collection of views of the modeled suspected pathology within the modeled body-structure and the modeled anatomical constraints, providing a second scoring function, forming sets of views from the second collection of views and scoring them, with the second scoring function," that, in

Claims* 33-41 lack novelty under PCT Article 33(2) as being anticipated by Rogers et al. (U.S. patent 6,346,706 B1). Regarding claims 33 and 41:A radioactive-emission-measuring-probe system comprisising (fig. 2 elements 28,32, and 34, col. 1 lines 15-20. and col. 10 lines 23-44, wherein the gantry and camera detectors are read as the probe system since they are probing/imaging the

at least one detecting unit, located within the housing and adapted for at least one form of motion with respect to the housing (fig. 2 elements 28, 32 and 34, and col. 13 lines 1-25, wherein elements 32 and 34 are part of the housings along with the gantry, element 28, that contain the camera detectors that detect the photons that are emitted. The gantry rotates to take an image in different

at least one motion provider, in mechanical communication with the at least one detecting unit, for providing it with the at least one form of motion (col. 13 lines 1-25 wherein the gantry with th camera detectors rotates. This is controlled by the processor/controlling unit. The rotation of the gantry and camera detectors are read as motion.);

a controller, in signal communication with the at least one motion provider, for instructing it regarding said at least one form of motion of the at least one detecting unit, thus automatically providing said at least one detecting unit with said at least one form of motion motion (col. 13 lines 1-25 wherein the gantry with th camera detectors rotates. This is controlled by the processor/controlling unit. The rotation of the gantry and camera detectors are read as motion.).

Form PCT/ISA/237 (Supplemental Box) (April 2005)

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Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Regarding claim 34: The radioactive-emission-measuring-probe system wherein the at least one detecting unit includes a plurality of detecting units, each detecting unit moving independently (col. 17 line 62 to col. 18 line 12).

Regarding claim 35: The radioactive-emission-measuring-probe system wherein the at least one detecting unit includes a plurality of assemblies of detecting units, each assembly moving $\theta < 0$ single body, and each assembly moving independently (col. 17 line 62 to col. 18 line 12, wherein each detector is composed of three detectors).

Regarding claim 36: The radioactive-emission-measuring-probe system wherein the at least one detecting unit includes a plurality of lines of detecting units, each line moving as a single body, and each line moving independently (fig. 5 elements 152-154c and col. 17 line 62 to col. 18 line 12, wherein the detectors are in lines).

Regarding claim 37: The radioactive-emission-measuring-probe system wherein the at least one detecting unit includes a plurality of lines of assemblies, each line moving as a single body, and each line moving independently (fig. 5 elements 152-154c and col. 17 line 62 to col. 18 line 12, wherein the detectors are in lines).

Regarding claim 38: The radioactive-emission-measuring-probe system wherein the at least one form of motion with respect to the housing includes at least two forms of motion with respect to the housing (fig. 2 elements 28, 32, 34, and 60, wherein the gantry rotates, i.e. a first motion, and the table moves perpendicular to the gantry, i.e. a second motion).

Regarding claim 39: The radioactive-emission-measuring-probe system wherein the at least one motion provider includes at least two motion providers (see claim 38).